

ASEA JOURNAL

VOLUME 48

1975

PUBLISHED BY

ASEA

VÄSTERÅS, SWEDEN

LIST OF AUTHORS

	Page		Page
<i>Ackander, L.</i> (see Strandberg, L. & Ackander, L.)		<i>Keenan, K., Schramm-Nielsen, P. & Juul Larsen, A.</i>	
<i>Askman, A., Dellby, B. & Bronnval, W.</i>		A new series of d.c. motors for 0.2–600 kW	117
Products using the aluminium alloy DUCTALEX	35	<i>Kronborg, G.</i>	
<i>Bäckström, K.</i>		Industrial d.c. motor drives	103
New waterworks in Stockholm	27	<i>Lindgren, G.</i>	
<i>Berneryd, S.</i>		Air circuit-breakers type ALG	79
ASEA oil-minimum circuit-breakers type HLR with improved performance	11	<i>Mårtensson, H. & Danfors, P.</i>	
<i>Bronnvall, W.</i> (see Askman, A., Dellby, B. & Bronnvall, W.)		The development of HVDC technology at ASEA	51
<i>Callaghan, J.</i>		<i>Niklasson, M.</i>	
The link that must not fail	43	Power transmission and distribution substations in Iraq	137
<i>Danfors, P.</i> (see Mårtensson, H. & Danfors, P.)		<i>Nordström, L.</i> (see Porro, M. & Nordström, L.)	
<i>Delbom, P.-Å. & Skuncke, O.</i>		<i>Nyman, L.</i>	
Modern thyristor convertors for d.c. motor drives	109	Record generator for the Swedish State Power Board's New Power Station at Porjus	94
<i>Dellby, B.</i> (see Askman, A., Dellby, B. & Bronnvall, W.)		<i>Omnell, K.-O.</i>	
<i>Engberg, K.</i> (see Eriksson, K. & Engberg, K.)		Hydrostatic drives with hydraulic wheel hub motors	40
<i>Ekström, Å.</i>		<i>Persson, B.</i> (see Flisberg, G., Funke, B. & Persson, B.)	
ASEA's new thyristor valve for HVDC transmission	55	<i>Porro, M. & Nordström, L.</i>	
<i>Eriksson, E.</i>		The floodlighting of an Italian football stadium	19
Outdoor oil-minimum circuit-breakers	3	<i>Schramm-Nielsen, P.</i> (see Keenan, K., Schramm-Nielsen, P. & Juul Larsen, A.)	
<i>Eriksson, G. & Haglöf, L.</i>		<i>Sinclair, M. & Eriksson, K.</i>	
HVDC station design	61	Bridge control system for marine turbines	131
<i>Eriksson, K. & Engberg, K.</i>		<i>Skötte, P. A.</i>	
Availability of modern convertor stations equipped with thyristor valves	66	QUINTUS® sheet metal forming presses—a new means for metal forming with high pressures and single tools	141
<i>Eriksson, K.</i> (see Sinclair, M. & Eriksson, K.)		<i>Skuncke, O.</i> (see Delbom, P.-Å. & Skuncke, O.)	
<i>Flisberg, G., Funke, B. & Persson, B.</i>		<i>Söderberg, E. A. B.</i>	
Three new HVDC projects	70	Optimum adhesion control of railway vehicles	147
<i>Funke, B.</i> (see Flisberg, G., Funke, B. & Persson B.)		<i>Strandberg, L. & Ackander, L.</i>	
<i>Haglöf, L.</i> (see Eriksson, G. & Haglöf, L.)		ASEA's programmable logic controller PROMATIC 700	87
<i>Juul Larsen, A.</i> (see Keenan, K., Schramm-Nielsen, P. & Juul Larsen, A.)			

LIST OF CONTENTS

	Page		Page
<i>Research and testing</i>		<i>Electrical, electronic and hydraulic equipment</i>	
ASEA oil-minimum circuit-breakers type HLR with improved performance	11	Outdoor oil-minimum circuit-breakers	3
Scandinavian Association for Testing Switchgear*	47	ASEA oil-minimum circuit-breakers type HLR with improved performance	11
The development of HVDC technology at ASEA	51	New waterworks in Stockholm	27
German-Swedish-Swiss working group develops HVDC circuit-breaker*	75	Hydrostatic drives with hydraulic wheel hub motors	40
		The link that must not fail	43
<i>Materials</i>		Optronic protection for series capacitors*	45
Products using the aluminium alloy DUCTALEX	35	Relay protections supplied to Philippsburg Nuclear Power Station, West Germany*	46
		Scandinavian Association for Testing Switchgear*	47
<i>Computers and process control</i>		New opto-relay*	47
Computer control of arc furnace operation*	24	HVDC station design	61
ASEA's programmable logic controller PROMATIC 700	87	Three new HVDC projects	70
Two process control systems for ore concentration plant at Boliden AB, Sweden*	97	German-Swedish-Swiss working group develops HVDC circuit-breaker*	75
DS-8, a new programmable digital system*	126	New surge arrester designs*	76
Remote control terminal DS-801 T*	151	Air circuit-breakers type ALG	79
ASEA paper machine drives for Korsnäs-Marma, Sweden*	151	ASEA's programmable logic controller PROMATIC 700	87
		Photo Darlington with very high sensitivity*	96
<i>Nuclear power</i>		Finnish steelworks places large order with ASEA*	96
ASEA-ATOM receives repeat order for nuclear power station from Finland*	22	Outdoor switchyard for Örebro district-heating power plant*	98
		Substations for Iraq*	99
<i>Turbines</i>		DS-8, a new programmable digital system*	126
New gas turbine unveiled*	23	Capacitor starting*	127
STAL-LAVAL and CdA extend licence agreement*	48	Static relay for measuring current ripple*	128
Bridge control system for marine turbines	131	Bridge control system for marine turbines	131
		Power transmission and distribution substations in Iraq	137
<i>Electrical machines</i>		Remote control terminal DS-801 T*	151
ASEA drives for Canadian pulp and paper mill*	48	Satellite substations in volcanic ash*	152
Record generator for the Swedish State Power Board's New Power Station at Porjus	94		
Finnish steelworks places large order with ASEA*	96	<i>Lighting</i>	
Industrial d.c. motor drives	103	The floodlighting of an Italian football stadium	19
A new series of d.c. motors for 0.2-600 kW	117		
Capacitor starting*	127	<i>Transportation and materials handling</i>	
ASEA paper machine drives for Korsnäs-Marma, Sweden*	151	Hydrostatic drives with hydraulic wheel hub motors	40
		Mine locomotives for LKAB's iron-ore mine in Kiruna, Sweden*	47
<i>Transformers and capacitors</i>		STAL-LAVAL and CdA extend licence agreement*	48
Large ASEA power transformer for the Netherlands*	22	ASEA to supply fully automatic transport systems to Polish mines*	96
Optronic protection for series capacitors*	45	The ASEA Group at the American Mining Congress Mining Show in Las Vegas, U.S.A.*	99
Capacitor starting*	127	Hägglund receives order for SHUTTLETRAIN transport system from the Philippines*	100
<i>Semiconductors and static convertors</i>		Bridge control system for marine turbines	131
Thyristor convertors for d.c. motor drives*	21	Optimum adhesion control of railway vehicles	147
The link that must not fail	43	The Swedish State Railways order a further 40 thyristor locomotives*	151
New opto-relay*	47	British Rail orders further thyristor traction equipment for APT from ASEA*	152
ASEA drives for Canadian pulp and paper mill*	48		
ASEA's role in HVDC technology	50	<i>Furnaces</i>	
The development of HVDC technology at ASEA	51	Computer control of arc furnace operation*	24
ASEA's new thyristor valve for HVDC transmission	55	Finnish steelworks places large order with ASEA*	96
HVDC station design	61		
Availability of modern convertor stations equipped with thyristor valves	66	<i>Electric power plants and networks</i>	
Three new HVDC projects	70	The link that must not fail	43
Photo Darlington with very high sensitivity*	96	Optronic protection for series capacitors*	45
Finnish steelworks places large order with ASEA*	96	Relay protections supplied to Philippsburg Nuclear Power Station, West Germany*	46
Further silicon rectifier equipment for electrolytic zinc refining ordered from ASEA*	97	ASEA's role in HVDC technology	50
Industrial d.c. motor drives	103	The development of HVDC technology at ASEA	51
Modern thyristor convertors for d.c. motor drives	109	ASEA's new thyristor valve for HVDC transmission	55
Silicon rectifiers for electrolysis plants*	124	HVDC station design	61
New electroplating convertors*	125	Availability of modern convertor stations equipped with thyristor valves	66
ASEA paper machine drives for Korsnäs-Marma, Sweden*	151	Three new HVDC projects	70
The Swedish State Railways order a further 40 thyristor locomotives*	151		
British Rail orders further thyristor traction equipment for APT from ASEA*	152		

	Page		Page
Record generator for the Swedish State Power Board's New Power Station at Porjus	94	ASEA paper machine drives for Korsnäs-Marma, Sweden*	151
Outdoor switchyard for Örebro district-heating power plant*	98		
Substations for Iraq*	99	<i>Miscellaneous</i>	
Power transmission and distribution substations in Iraq	137	Harland Simon Ltd., Bletchley, England joins the ASEA Group*	23
Satellite substations in volcanic ash*	152	Greek-Swedish joint venture in the electrical industry*	23
		Reprints from the ASEA Journal	24
<i>Industrial equipment</i>		Scandinavian Association for Testing Switchgear*	47
New waterworks in Stockholm	27	STAL-LAVAL and CdA extend licence agreement*	48
ASEA drives for Canadian pulp and paper mill*	48	Reprints from the ASEA Journal	48
Finnish steelworks places large order with ASEA*	96	German-Swedish-Swiss working group develops HVDC circuit-breaker*	75
Further silicon rectifier equipment for electrolytic zinc refining ordered from ASEA*	97	The ASEA Group at the American Mining Congress Mining Show in Las Vegas, U.S.A.*	99
Two process control systems for ore concentration plant at Boliden AB, Sweden*	97	Reprints from the ASEA Journal	128
Industrial d.c. motor drives	103	ASEA's Dutch subsidiary moves to new premises in Apeldoorn*	150
Silicon rectifiers for electrolysis plants*	124		
New electroplating convertors*	125		
QUINTUS® sheet metal forming presses—a new means for metal forming with high pressures and single tools	141		

* News in brief